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I. Keyboard Overview

The keyboard is used for controlling the intelligent dome. The keyboard is the main device between operator and device in the monitoring system. It can be regarded as the main control keyboard and as the vice control keyboard.

1. Liquid Crystal Display the LCD display board is regarded as interface between operator and device. It is direct, convenient, easy to follow and conveys large amounts of information.

2. Proportion Joystick[1] (Options: PTZ control joystick and PT control joystick

Use this joystick to operate high-speed dome. It is easy to use with good handling and flexible maneuvering.

3. The lock function of the keyboard can prevent unauthorized users to operate the keyboard.

4. Provide RS485 control output signal and also offer the standard RS232 control signal.

II. Intelligent Keyboard Technical Parameters

1. Communication baud rate: 1200 bps;2400 bps;4800 bps;9600 bps

2. Protocol: PWT protocol, PELCO_D, PELCO_P

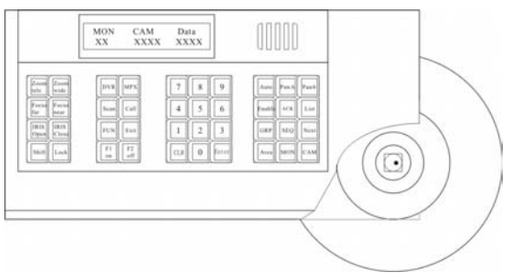
3. Data Format: N,8,1

4. Power input: AC/DC 9V-12V

5. Max controlled dome camera: 1024 [2]

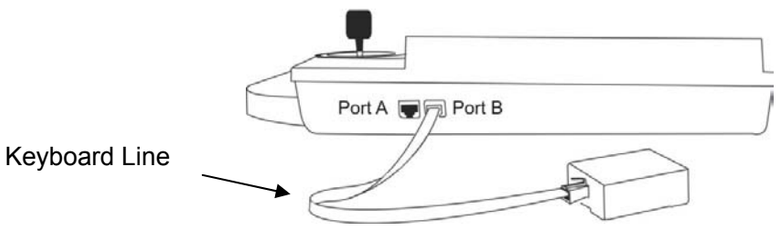
6. Power: 5W

III. Intelligent Keyboard Drawing



3.1 Intelligent Keyboard Connection

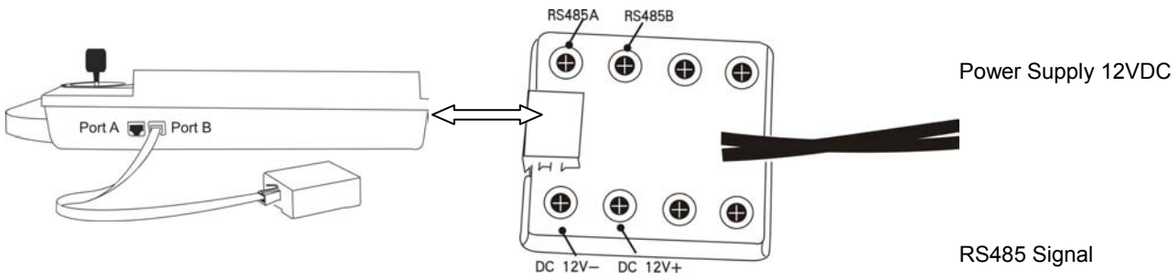
Insert one end of keyboard data line into keyboard port B on the right of its back panel. Insert the other end into wire box. The picture is as below:



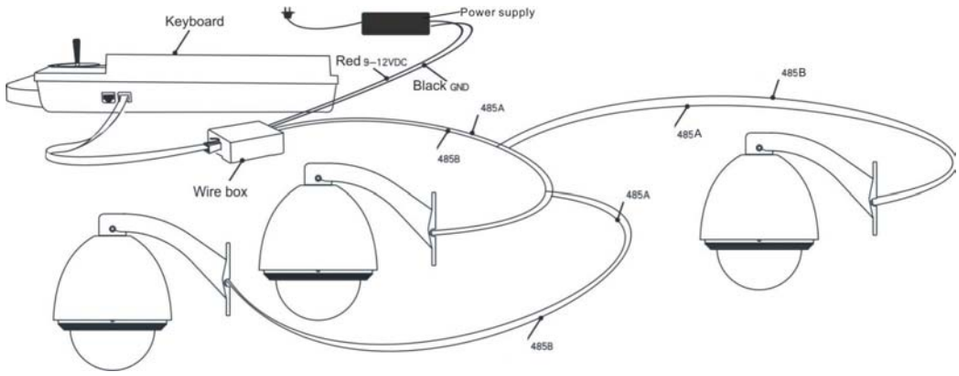
[1] Proportion Joystick: The speed of the joystick is a direct ratio to the running speed of the dome camera.

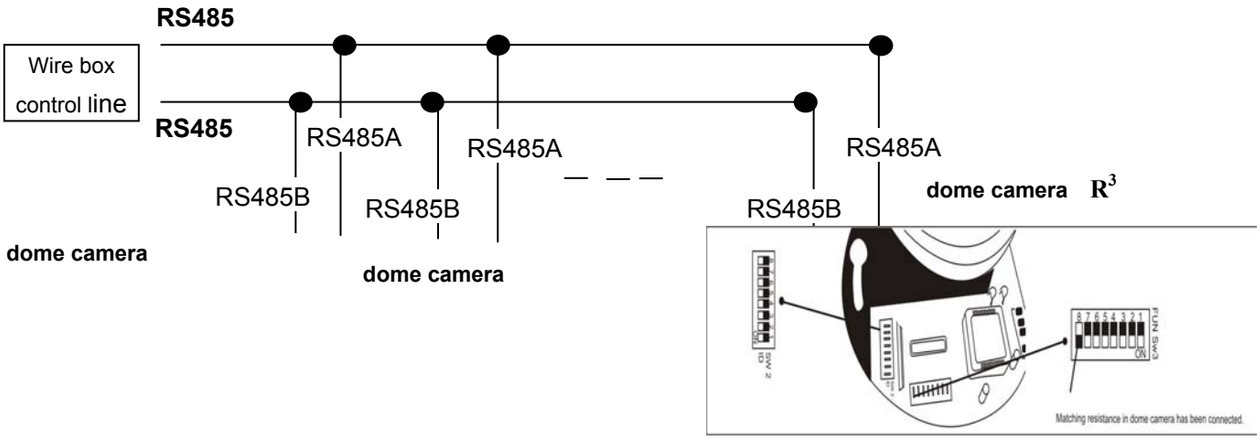
[2] The keyboard can set up to 1024 sole addresses. However, it does not control 1024 dome cameras directly. The strength and weakness of the RS485 control signal determines the speed dome quantity. It can control up to 1024 VPTZ dome cameras through signal compensation devices. The RS485 can control 32 dome cameras at most if it has no signal compensation.

Wire Box Inner Function Picture



3.2 Keyboard Connection with Dome Camera

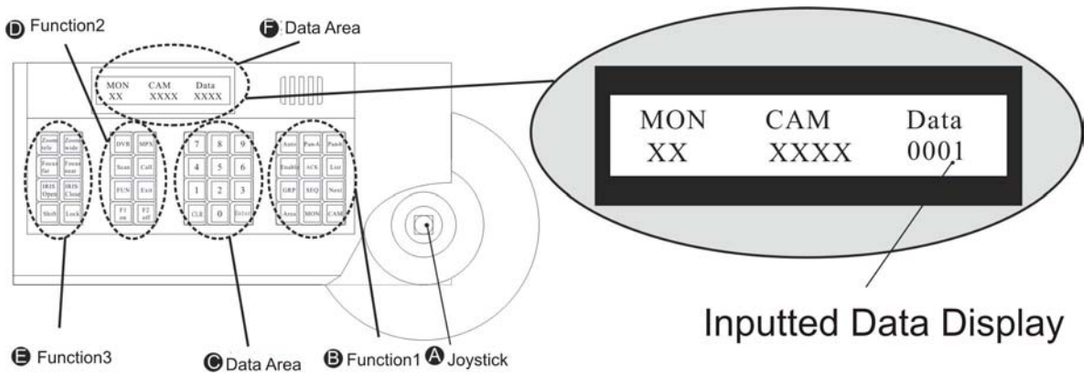




⚠ **When dome camera is furthest away from the control keyboard, Please set switch of matching resistance as ON status.**

[3] R is on behalf of matching resistance. The farthest dome from the control center should be set as its matching resistance in order to minimize RS485 bus reflection and disturbance. The 8th bit of SW3 shows ON status which means the BUS matching resistance has been connected.

IV. Function Key



- Joystick: Control Dome Camera running: Up, down, Left, Right, Left-up, Left-down, Right-up, right-down, camera lens zoom in and zoom out
  Keyboard joystick can't control Dome Camera lens zoom in and zoom out. Other function same as
- Function Area 1: Dome Camera Selection and Auto scanning Control
- Number Area: Data Input, Clear and Confirmation
- Function Area 2: Menu Turning, Exit and Preset Position Set
- Function Area 3: Dome Camera Lens Control and Keyboard Lock and Unlock
- Data Display Area: Data Display

Function Key Explanation is As Below:

AUTO key: Finish Dome Camera auto action
Pan-A key: Set the starting point of dome camera auto scanning.
Pan-B key: Set the starting point of dome camera auto scanning.
Enable key: Alarm open set [4]
ACK key: Dome Camera menu function confirmation
List key: Dome Camera menu function selection
CAM key: Dome Camera address selection
CLR key: Clear the inputted number on the DATA display area.
Press CLR to delete when inputted number is wrong or need to input it again
ENTER key: When you press the ENTER key, the inputted number in the Data area or selected function is in operation immediately.
Scan key: Adjust Dome Camera pattern tour function
Call Key: Adjust Dome Camera preset position function
F1 Key: Keyboard menu cursor up. **F2 key:** Keyboard menu cursor down.
FUN key: Press the FUN key to select menu items circularly.
EXIT key: Exiting from Grade 2 menu to Grade 1 menu or from Grade 1 to normal operating mode.

4 This function is only for the high speed dome with alarm linkage, not for the Dome Camera.

LOCK key: After pressing this key; input the password 6688, the keyboard is under locked status. Open the keyboard by inputting 6688

SHIFT key: Such as <SHIFT> + <AUTO> stands for pressing the SHIFT key and AUTO key.

SHIFT+AUTO key: Start up 360° scanning. SHIFT+ Scan key: Set preset position.

Other key such as GRP, SEQ, NEXT, AREA, DVR, MPX is designed for other VPROTECT terminal device.

Camera Lens control

Zoom in: Press <ZOOM in> key/ joystick make a veer rotation

Zoom out: Press <ZOOM out> key/ joystick make a retrorse rotation

Focusing Far: Press <FOCUS far> key

Focusing Near Press <FOCUS near> key

IRIS open: Press <IRIS open> key

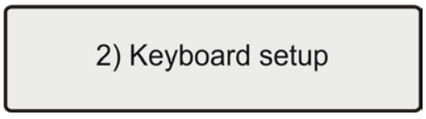
IRIS close: press<iris close> key

V. Keyboard Parameters Setting

The keyboard intelligent keyboard baud rate and communication protocol should Be consistent with that of the dome camera.

5.1 Keyboard Parameters Set

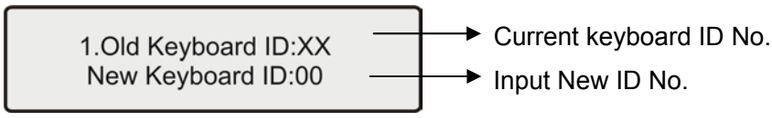
Press the FUN key two times until LCD displays:



Press the ENTER key into keyboard set up menu. Press the FUN key to enter the submenu. Press the EXIT key to exit to the main menu.

5.1.1 Keyboard ID No Set [5]

Press the ENTER key on keyboard screen "Keyboard setup" until LCD displays:



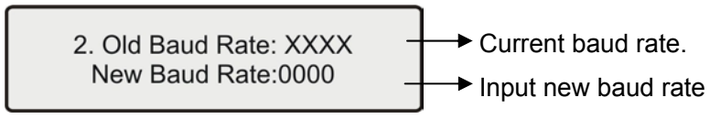
Input the number (0-16), press ENTER for confirmation. New ID will be in effect immediately. **ID:00** ***Main Control Keyboard[6], ID: 1-16 Vice Control Keyboard[7].***

The default keyboard ID number is No. 00. This is also the ID number for the Dome camera. Verify the keyboard ID, if the ID No, is not set correctly you will Not be able to control the dome camera.

5. Keyboard ID is used to set multi controlling keyboards when a series of Cameras are required to be controlled. A group of speed domes can be supported by one main control keyboard and 16 vice control keyboards.
6. Main control keyboard: Its ID is 00. It enjoys priority when several keyboards are in control. Only one of several keyboards can be set as main control keyboard. ID must be sole, not repeated.
7. Vice control keyboard: ID is to be 01-16 keyboard

5.1.2 Keyboard Baud Rate Set

Press the FUN key until LCD displays:



Optional baud rate: 9600, 4800, 2400, and 1200

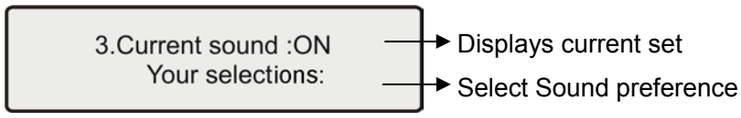
Default baud rate: 9600bps.

Input your required baud rate in DATA area, and press the ENTER key for confirmation.

New baud rate is in effect immediately.

5.1.3 Key-press Sound Set

Press the FUN key until LCD displays:



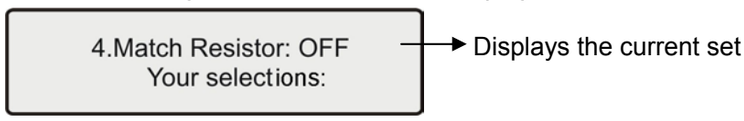
Press <F1/ON> key showing “ON”; turns on the sound function. Press the Enter key for confirmation.

Press<F2/OFF> key showing “OFF”; turns off the sound function. Press the Enter key for confirmation.

The normal sound status is open.

5.1.4.Matching Resistance (150 Ω) Set[8]

Press the FUN key three times until LCD displays:



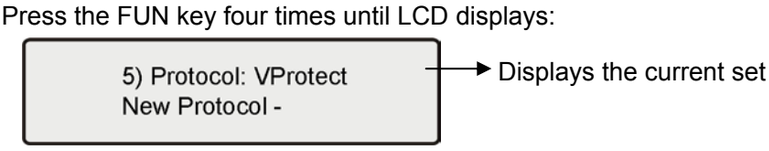
Press<F1/ON> key showing “ON”, this will place suited resistance between RS485 D+ and D-,

Press<F2/OFF> key showing “OFF”, this will separate suited resistance from RS485 D+ and D-,

Press the ENTER key for confirmation. The normal status is open.

5.1.5.Keyboard Protocol Set

Press the FUN key four times until LCD displays:



Press “1” key showing “VPROTECT” protocol, press “ENTER” for confirmation.

Press “2” key showing “PEL-D”, PELCO-D[9]protocol, press “ENTER” for confirmation.

Press “3” key showing “PEL-P”, PELCO-P protocol, press “ENTER” for confirmation

default protocol is the our PWT Protocol.

---

[8] Sometimes, matching resistance should be set at the control center in order to avoid reflection and disturbance from RS-485 communication signal and other signals.

[9.] PELCO-P, PELCO-D protocol: The keyboard can be used together with other high speed domes. When using a Camera, please adopt the PWT protocol.

5.1.6 Keyboard Test

Press the FUN key until LCD displays:

Press the ENTER key for confirmation, a blank screen will appear. Press any key except the <EXIT> key, the relative name will display on the screen.

Press <EXIT> to leave the testing status and return to the main menu.

If the keyboard test does not display the correct Keyboard protocol, the keyboard may be damaged.

5.1.7 Max Vice Control Number Set [10]

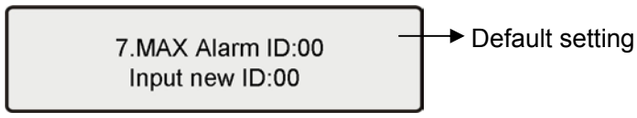
Press the FUN key until LCD displays:

Input number(00-16), Press " ENTER" for confirmation.

If the keyboard is set as:01,02…16,it will be considered as the total Vice control keyboard quantity separately.

5.1.8. Max Alarm Set [11]

Press the FUN key until LCD displays:



Input number, the biggest alarm input terminal number is 239. Press " ENTER" for confirmation

If the keyboard is set as:000,001,002…239,the total relative quantity for Alarm input terminal will be in operation.

.

[10] When there are two or more than two keyboards in one system, please use the main control keyboard to set the total desired vice keyboard quantity should be set(16 vice control keyboard at most). If the vice keyboard quantity are not set, the vice keyboards will not control camera dome. The number desired to input should be more than or equal to the total actual vice control keyboard quantity.

[11] You should set the total alarm input terminal quantity for alarm dome camera if such dome camera is adopted. The number desired to input should be more than or equal to the total actual alarm input terminal quantity. One dome camera has 4 alarm input, i.e. 59 alarm dome camera can be connected with the keyboard at most.

VI. Intelligent Keyboard Operation

The startup interface is general operation menu after the keyboard is connected to the power supply.

LCD displays as follows:

MON	CAM	DATA
01	0001	0000

6.1 Keyboard Communication Address Set

Input any number within “1～1024”(Dome Camera address) in DATA area, Press<CAM>key.

The relative number will display on CAM area.

6.2 Keyboard Control for Dome Camera

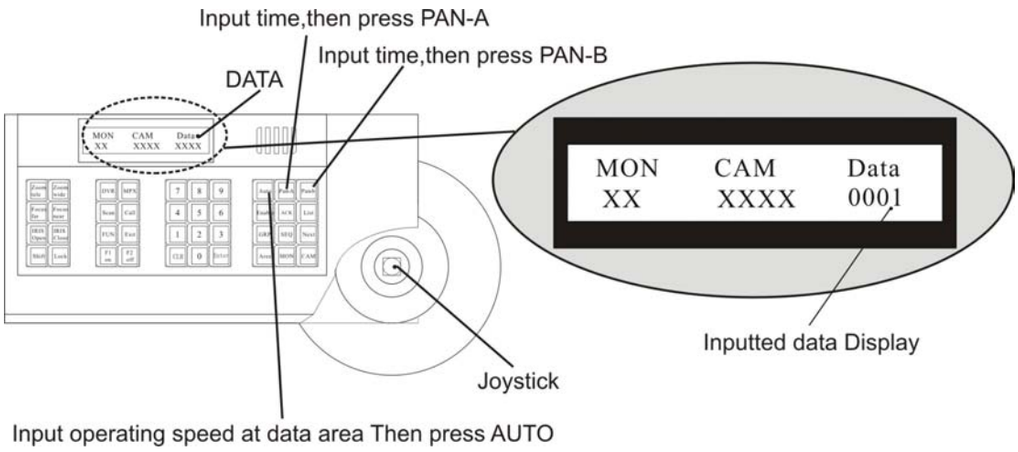
When Operating keyboard joystick in different directions, Dome Camera will do relative movement. The joystick excursion scope from center is direct ratio to running speed of Dome Camera.(0.4°/S-280°/S)

When the “DATA” column does not show “0”,the “DATA” column displays the Address of the dome camera.

When the “DATA” column shows “0”, the “CAM” column displays the address Of the dome camera.

(Take PWT protocol for example to operate Dome Camera)

6.3 Auto Scanning (2 Points Scanning,360° Scanning)



A．2 Points Scanning [12]

The operator can also run a simple point-to-point scan (also called back-and-forth scanning). To do this, set Preset Point A first (at the same time set the dwell[13] time at Point A), and then set Present Point B (at the same time set the dwell time at Point B). Finally execute an outer command to scan between points A and B.

---

[12] **2 points scanning: It means scanning between two points. The speed is: Grade1, Grade 2·····Grade64 (from slow to fast)**

Press CLR key on the keyboard DATA area to delete value on DATA column.

1. To set Point A. Move the joystick to the desired position.

2. In the Main Menu enter a dwell time for Point A. Example: If Dwell time is 2 seconds the keyboard displays:

MON	CAM	DATA
00	0001	0002

3. Press the "PAN A" key.

4. To set Point B, move the joystick to the desired position.

5. In the Main Menu enter a Dwell time for Point B.

6. Input the grade Speed (1-64) and Press the "AUTO" key.

This will start up 2 points Scan

B. 360° Scanning [14]

The Operator can also start an auto cruise scan. This scan will rotate 360° from the desired position.

Press CLR key on the keyboard DATA area to delete value on DATA column.

1. In the Main Menu, input desired cruise group No.

Example: Desired Group No. is 4 the keyboard displays:

MON	CAM	DATA
00	0001	0004

2. Press Shift + Scan to place PTZ into cruise scanning.

OR

1. Move the joystick to desired position.

2. Input the running speed (1-64) and then input Shift + AUTO key.

⚠ **Shake the keyboard joystick to stop auto scanning.**

6.4 Set Preset Position

1. Press CLR to clear the number in the data area.

2. Enter the Preset Position Number you wish to set. You can set up to 128 Preset Positions

Ex. Set Preset Position No. 1, the keyboard displays:

MON	CAM	DATA
00	0000	0001

Displays the Preset Position Number (1-128)

3. Adjust the camera to the desired position including location, camera zoom, focus and iris.

4. Press Shift + Call for final confirmation.

---

[13] **Dwelling time: Can set dwelling time at one preset position: 1S,2S ……. 60S**

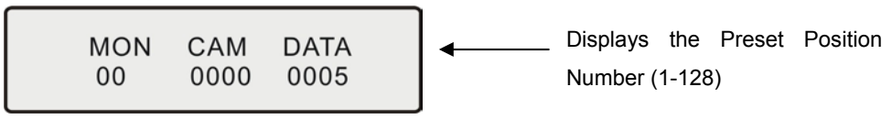
[14] **360° scanning: 360° scanning at one preset position. Dome speed is: Grade1, Grade 2, . Grade 64 (from slow to fast)**

6.5 View Preset Position

1. **Press CLR to clear the number in the data area.**
2. **Input the address of the dome in the Data area, press down<CAM> key and show it in DATA area.**

3. Input the preset position you would like to view.

Example: View preset position No. 5

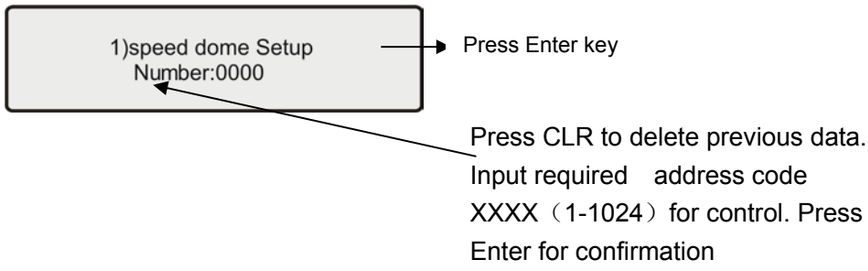


3. **Press the CALL key. The dome will move to the Preset Position No. 5**

After pressing the CALL key, dome camera will nun to the preset position you Would like to view at Grade 64(280°/S) speed.

6.6 Preset Position Parameter Set for the Dome (PWT protocol has this function) [15]

Press the FUN key until LCD displays:



Press ENTER key into preset position set of dome camera.

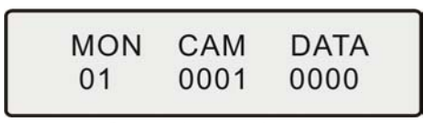
The below menu is submenu. Press FUN into submenu after entering this main menu.

6.6.1 Preset Position Speed and Dwell Time Set

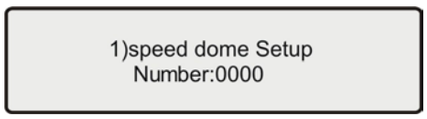
Dome Camera has the capacity to set up to 128 preset positions through the keyboard. It can set a running speed at each preset position from 0.4/s to 280/s (1-64 grades) and dwell time from (1-60 seconds).

Note: can rotate at low speeds and at fast speeds. Its speed can be divided into 64 grades. 1 is the lowest speed and 64 is the fastest speed.

To get to the Main Menu Press Exit until the screen displays:

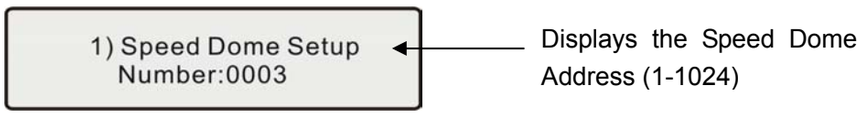


1. **In the Main Menu, Press the FUN key once. The Keyboard displays:**

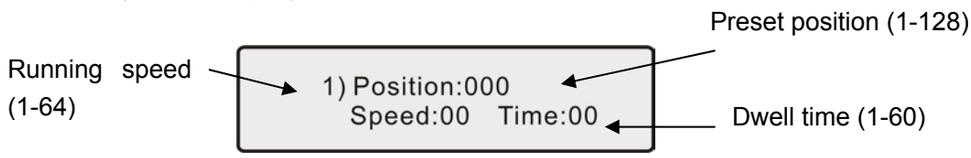


2. Enter the correct Speed Dome Unit and Press Enter.

Example: Preset Position for Speed Dome 3. The Keyboard displays:



3. Now the Keyboard displays:



Press F1 key on the keyboard to move the cursor up and down

4. Press CLR key to delete previous data before programming to a new preset position.

5. Enter desired Preset Position and Press Enter.

6. Press F1 to get to Speed. Using the number keys enter the desired running speed.

7. Press F1 to get to Time. Using the number keys enter the desired dwell time.

For example: Set the running speed of preset position No. 6 as Grade 64 (fastest speed), dwelling time is 5 seconds. Set the running speed of preset position No.2 as Grade 10, dwelling time is 10 seconds.

1. **Press the FUN key once.**
2. **Press CLR to clear the data.**
3. **Input 06 (Note: Setting the Preset Position No. 6) press the Enter Key to Confirm.**
4. **Press the F1 key to move the cursor to Speed:00←**
5. **Input 64, press Enter**
6. **Press the F1 key to move the cursor to Time:00←**
7. **Input 05, press Enter**
8. **Press F1 to move the cursor back to 1.Position:001←**
9. **Press CLR to delete 0006**
10. **Input 02, press Enter**
11. **Press the F1 key to move the cursor to Speed:64←**
12. **Press CLR to delete 64**
13. **Input 10, press Enter**
14. **Press the F1 key to move the cursor to Time:05←**
15. **Press CLR to delete 05**
16. **Input 10, press Enter**

Do not forget to press ENTER to confirm each Preset Position. Not doing so will result in lost information and the setting will not be effective.

6.6.2 Pattern Tours Set [16]

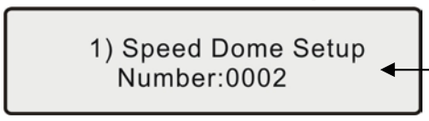
The keyboard can set pattern tour groups for the speed dome camera. Before setting the Pattern Tours please set all preset positions in advance. If the preset positions are not set the pattern tour will default to the pattern tour parameter. Note: can set 8 cruise groups.

1. Press the FUN key once, the keyboard displays:

Displays the Speed Dome Address (1-1024)

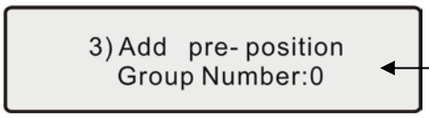
2. Enter the correct Speed Dome Unit and Press Enter.

Example: Set Pattern Tour for Speed Dome Unit 02. The Keyboard displays:



Displays the Speed Dome Address (1-1024)

3. Press the FUN key once, now the keyboard displays:



Displays the Group Number (1-8)

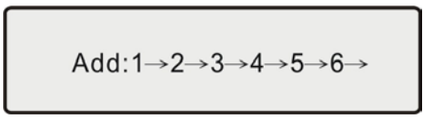
4. Input a Group number using the number keys, press Enter, the keyboard displays:

5. Input desired Pattern Tour for the Group. You can set up to 16 Preset Positions in one Group.

Example: Desired pattern tour of 6 Preset Positions. The sequence is Preset Position No.

1 – 2 – 3 – 4 – 5 – 6 –

The keyboard displays:



6. Press Enter to confirm Pattern Tour.

Note: When completed, Press F2 to close and exit. To Start the Scan: In the Main Menu enter the Group Number and Press SCAN.

- **This dome can set 8 cruise groups with a Max of 16 cruise points. Each group (1-128 points at any preset position).**
- **Set the preset position at each of the cruise groups**
- **Dwell time at each preset position can be customized at a different time (1-60 seconds).**
- **The speed to each preset position can be different (1-64 grades)**
- **Default cruise group will auto scan by starting at preset position point No. 1 to preset position point No. 16.**

[16] **Pattern tours: Layout different preset position for Dome Camera as one group, make the camera scan as set route in advance. The running speed and dwell time of each preset position can be programmed.**

Two pattern tours styles can be used:

A .To-and-from Scanning

1-2-·····.-16-1-2-·····-16-1-····· Make an auto circle scanning by points.

Press EXIT key and exit to default status of the keyboard.

Input cruise Number adjust key SCAN into to-and-from scanning (as the above route)

B. Cruise Scanning

1-2·····15-16-15-·····-2-1-2-·····-15-16-15-·····Make an auto cruise scanning

Press EXIT key and exit to default status of the keyboard. Then input cruise group No and then input Shift + Scan. Into cruise scanning (as the above route).

If a point is not set or is deleted after being set, there will not be any scanning to these points.

Select: → Add the preset position to cruise

Press ENTER key for confirmation after adding a preset position. Press F2 exit when setting is finished.

Please set the preset position parameter before setting its pattern tours. If not setting dome preset position, Dome Camera will operate default preset position parameter when it runs its pattern tours.

6.7 Guard Location Set

The guard location is an important position that the camera will come back to automatically when there is no operation for a defined period. The user can set a guard location and control the waiting time to the guard location, starting and stopping (1-255S) before allowing the camera to return to the guard location.
Use the keyboard to set the guard location and its waiting time.

Turning the Guard Location On/Off and Setting delay time to Guard Location

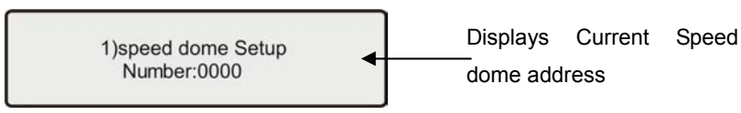
1. To set the guard location to start or stop (The keyboard recognizes this action as a Switch):

ON: Start OFF: Stop

Press F1	ON	Startup the guard location
Press F2	OFF	Stop guard location

Example: Press F1 ON to start up guard location. Dome will rotate to set position within XX seconds.

2. In the Main Menu screen, press the FUN key once, LCD displays:



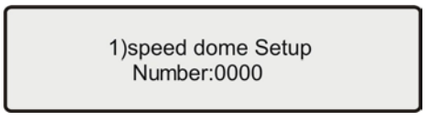
3. Press Enter to Confirm.

4. Press the FUN key three times, LCD displays:

5. Input the desired waiting time using the number keys:
Example: After inputting time: 05, press Enter.

6.8 Guard Location Parameter Set

1. When the keyboard is under default (Main Menu) status, press the FUN key once, The keyboard displays:



2. Press Enter to confirm.
3. Press the FUN key two times, the keyboard displays:

4. Move the joystick/rocker to the target position you would like to set as the Guard Location.
5. Press Enter to set the Guard Location.
The position is set as the guard location.

After inputting the waiting time: XX, press the ENTER key. Press F1 (ON) to start up the Guard Location. The dome will rotate to the set position within XX seconds.

6.9 Intelligent Keyboard Menu Set for

Press the FUN key four times, keyboard will display:

Press FUN ⟶ 5)dome menu
Data:0000: Press Enter key

5 Dome menu
Data:0000 → Press CLR to delete previous data, input required address of (1-1024),press Enter key.

Operating menu see below for reference:

Operating Key	Function
SEQ	Dome menu cursor up
MON	Dome menu cursor down
AREA	Dome menu cursor left
CAM	Dome menu cursor right
ENTER	Enter function menu
ENABLE	Exit function
ACK	Confirmation
LIST	Select
EXIT	Keyboard function menu exit to upper menu

dome camera menu set should consult Dome Camera manual.

6.10 Defense Set

Defense setting and withdraw will be finished with our 3-dientional keyboard if switches 5～8 on the pin switch are pushed to “OFF” status.

1. Defense setting：input alarm code 1～4 + Enable,
2. Defense withdraw：input alarm code 1～4 +shift +Enable,
3. Alarm stop：

（1） shift + CLR

Any instruction for speed dome movement, for example to make speed dome turn upwards, downwards, left or right may help to stop/intermit alarming.

VII. Auxiliary Function Set

The auxiliary function is used with other PWT products. It is not used with the Dome camera.

7.1 Wash Brush Set[17]

Press FUN until LCD display as below:

3) Wash

Number:0001 OFF→Set “Wash Brush” open by pressing down “F1/ON”key, Set “Wash Brush” close by pressing down “F2/OFF”key.

7.2 Heating Set[18]

Press FUN until LCD display as below:

4) Warm

Number:0001 OFF→Set “Heating” open by pressing down “F1/ON”key, Set “Heating” close by pressing down “F2/OFF”key.

7.3Auxiliary Switch 1 Set

Press FUN until LCD display as below:

5) Auxiliary#1

Number:0001 OFF→Set “Auxiliary Switch 1” open by pressing down “F1/ON”key, Set “Auxiliary Switch 1” close by pressing down “F2/OFF”key.

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[17] This Function is used for the frontal terminal device with the wash brush function only.

[18] The fan and heater in the speed dome camera is always under auto temperature control status. This function will auto start when the temperature reaches higher point or lower point.

7.4Auxiliary Switch 2 Set

Press FUN until LCD display as below:

6) Auxiliary#2

Number:0001 OFF→Set “Auxiliary Switch 2” open by pressing down “F1/ON”key, Set “Auxiliary Switch 2” close by pressing down “F2/OFF”key.

7.5 Setting Of The Menu Of Matrix

Keep pressing the FUN key till there is display of the following information on the LCD:

7)”Matrix Menu”

Press enter to “menu”

Press ENTER key to enter the menu of matrix.

There will be display of the following information on LCD:

“Matrix menu”

Data:”0000” is the default data of the menu of matrix

The details for operation can be found in the form below:

Operation Key	Functions
F1	Up
F2	Down
ENTER	Enter Submenu
MPX	Return to the Previous Menu，
When it is in the data column , input the data and then press enter key.	Change the data in the menu of matrix
EXIT	Return to the Previous menu of the Function

7.6 Proportion Joystick

! This function has been set well before the keyboard leaves the factory. The speed of the Joystick is a direct ratio the running speed of the dome. If it is not a direct ratio; reset the keyboard joystick parameter.

7.7 Joystick ratio setting/adjustment

Check the joystick provided that the control of speed domes is witnessed to be sluggish.

(1.) set up the protocol as HUNTCCTV,

(2.) Press "Exit" key to return the keyboard setting as default.

Press the FUN key until LCD displays:

8) Joystick Set

M: 000 M: 000 M: 000 （M:* indicates the data of the corresponding joystick movement range(scale).**

7.7.1 Set Joystick middle value (dwelling time)

Press the "AUTO" key to set the relevant data when joystick stands at the center-point, there will be "M:000 M: 000 M: 000" displayed on the LCD.

7.7.2 Maximum Upward Movement Data Setting

Move the joystick upwards to the maximum and press "Ack" key to set the relevant maximum data. There will be

"U: 239 M: 000 M:000 "displayed on the LCD.

7.7.3 Maximum downward Movement Data Setting

Move the joystick downwards to the maximum and press "LIST" key to set the relevant maximum data. There will be

"D: 239 M: 000 M: 000" displayed on the LCD.

7.7.4 Maximum leftward Movement Data Setting

Move the joystick leftwards to the maximum and press "PAN_A" key to set the relevant maximum data. There will be

"M: 000 L:239 M: 000" displayed on the LCD.

7.7.5 Maximum rightward Movement Data Setting

Move the joystick rightwards to the maximum and press "PAN_B" key to set the relevant maximum data.

There will be

"M: 000 R: 239 M: 000" displayed on the LCD.

7.7.6 Maximum Counter-clockwise Data Setting(Available Just for 3-dimentional Keyboard)

Screw counter-clockwise the middle pillar to its maximum and press "SEQ" key to finish the relevant maximum data setting.

7.7.7 Maximum Clockwise Data Setting(Available Just for 3-dimentional Keyboard)

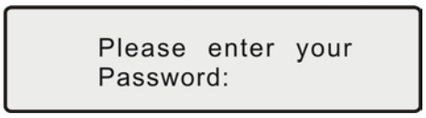
Screw clockwise the middle pillar to its maximum and press "NEXT" key to finish the relevant maximum data setting.

Function Key	Function
SEQ	for Maximum Counter-clockwise Data Setting(zoom out)
NEXT	for Maximum Clockwise Data Setting(zoom in)
PAN_A	for Maximum leftward Movement Data Setting
PAN_B	for Maximum rightward Movement Data Setting
LIST	for Maximum downward Movement Data Setting

AUTO **for Maximum upward Movement Data Setting**

VIII. Lock Keyboard

Press down the LOCK key, LCD displays:



Input password: 6688 (This password is set by the factory and cannot be modified). Once entered, keyboard will be in locked status. It shows:

Key is locked

Password:

When the keyboard is locked the users cannot operate the keyboard.

To unlock the keyboard input the password: 6688 then press the ENTER key for confirmation.

The keyboard will go back to the last screen before it was locked.

IX. Exception Handles

Exception phenomena	**Possible reason**	**Relative solution**
No display on the screen when the power on	**1.**Power supply is not connected properly **2.** Watt is not enough	**1.**Check connection of power line **2.**See if power supply is AC/DC 9V-12V
No way to control designated dome or high speed dome	**1.**Protocol is not correct **2.**Baud rate is not correct **3.**Controlled address is not correct **4.**the polarity of control line is not correct	**1.**Check if the keyboard protocol accords with that of dome or high-speed ball or not. **2.**Check if the baud rate of the keyboard accord with that of dome or high-speed ball or not. **3.** The number in CAM or DATA area can't accord with the object address
No Bi sound when pressing key	Key-press sound is closed	Start up key-press sound in the keyboard set
Other phenomena		Back to manufacturer for maintenance

! When using the keyboard to control other dome cameras, keep the keyboard setting (Baud rate, protocol, address)consistent with the dome camera. Some dome camera addresses have a±1 difference the keyboard does n

X. Key-press Function

HUNTCCTV Protocol Operating

Key	Function
Call	Adjust preset position
Shift + Call	Set preset position
Pan –A	Limited Site A

Pan-B	Limited B
Auto	Line Scan (scanning between two points)
Shift _Auto	Panel Scanning (Mode Scanning)
Scan	Start up the perambulate group
Shift + Scan	Start up intercourse perambulate group
CAM	LCD show CAM area address

PELCO_D PELCO_P Protocol Operating

Key	Function
Call	Adjust preset position
Shift + Call	Set preset position
MPX	Clear preset position

SAMSUNG Protocol Operating

Key	Function
Call	Adjust preset position
Shift + Call	Set preset position
AUTO	**Start up the perambulate group**
Scan	**Panel Scanning (Mode Scanning)**

KALATEL Protocol Operating

Key	Function
Call	Adjust preset position
Shift + Call	Set preset position
AUTO	**Panel Scanning (Mode Scanning)**

XI. Keyboard Spare Parts List

Parts	**Quantity**	**Unit**
Manual and Operating Instructions	1	PCS
Keyboard	1	PCS
12VDC Power Supply	1	PCS
Data Line	1	PCS
Wire Box	1	PCS
Glove	1	PCS
M3*20 Screw	2	PCS
Double-side Adhesive Plaster	1	PCS

XII. Keyboard Menu Frame

Keyboard display when it is under default status